

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU101718\  
 Data File : VU027678.D  
 Acq On : 17 Oct 2018 15:12  
 Operator : MD/SY  
 Sample : J5463-05 200X  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JB6

Quant Time: Oct 19 06:49:27 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR101718WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Fri Oct 19 06:41:15 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 83738    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 80042    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 40433    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 28475    | 4.28     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 85.60% |
| 7) Chloroethane-d5             | 1.68   | 69    | 23229    | 4.64     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 92.80% |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 41031    | 3.47     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 69.40% |
| 20) 2-Butanone-d5              | 4.21   | 46    | 87295    | 46.14    | ug/L | -0.01  |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 92.28% |
| 24) Chloroform-d               | 4.65   | 84    | 47268    | 4.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.20% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 27136    | 4.66     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.20% |
| 32) Benzene-d6                 | 5.34   | 84    | 103189   | 4.73     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.60% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 36936    | 4.85     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 97.00% |
| 41) Toluene-d8                 | 7.57   | 98    | 99912    | 4.74     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 94.80% |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 14578    | 4.35     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.00% |
| 46) 2-Hexanone-d5              | 8.32   | 63    | 77284    | 47.00    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 94.00% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 26553    | 4.48     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 89.60% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 36080    | 4.76     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 95.20% |

## Target Compounds

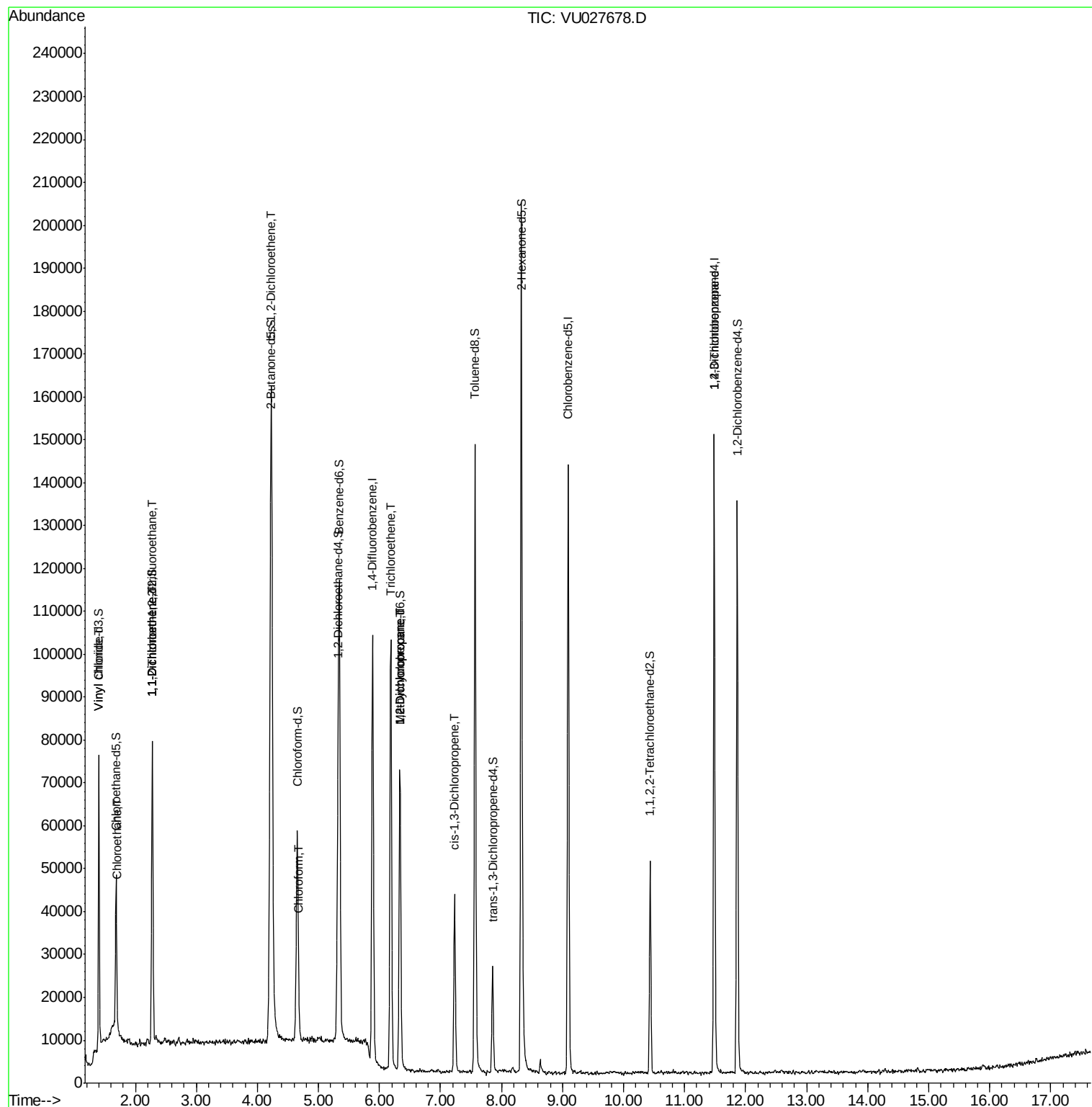
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Vinyl chloride              | 1.41  | 62   | 20446    | 2.502  | ug/L   | 94     |
| 8) Chloroethane                | 1.70  | 64   | 3962     | 0.841  | ug/L # | 50     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28  | 101  | 352      | 0.062  | ug/L # | 28     |
| 12) 1,1-Dichloroethene         | 2.29  | 96   | 861      | 0.152  | ug/L # | 1      |
| 22) cis-1,2-Dichloroethene     | 4.23  | 96   | 69028    | 10.352 | ug/L # | 100    |
| 25) Chloroform                 | 4.68  | 83   | 1541     | 0.133  | ug/L   | 97     |
| 34) Trichloroethene            | 6.19  | 95   | 36484    | 5.381  | ug/L   | 99     |
| 35) Methylcyclohexane          | 6.33  | 83   | 7839     | 0.671  | ug/L # | 17     |
| 37) 1,2-Dichloropropane        | 6.34  | 63   | 3611     | 0.480  | ug/L # | 89     |
| 39) cis-1,3-Dichloropropene    | 7.23  | 75   | 835      | 0.076  | ug/L # | 29     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75   | 4881     | 1.129  | ug/L # | 86     |

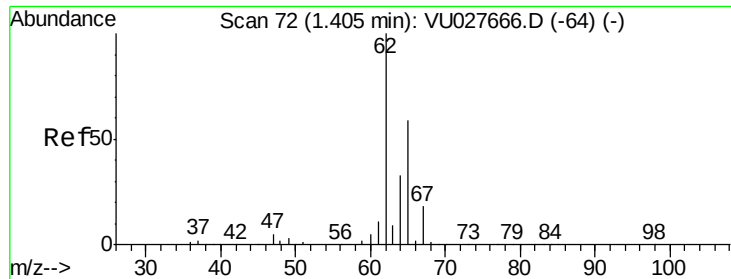
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 19 06:49:27 2018  
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QLast Update : Fri Oct 19 06:41:15 2018  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.502 ug/L

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU027678.D

Acq: 17 Oct 2018 15:12

Instrument :

MSVOA\_U

ClientSampleId :

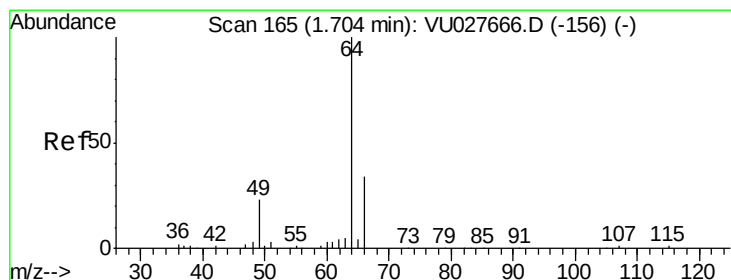
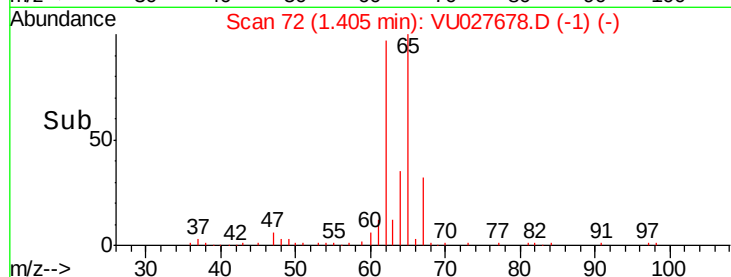
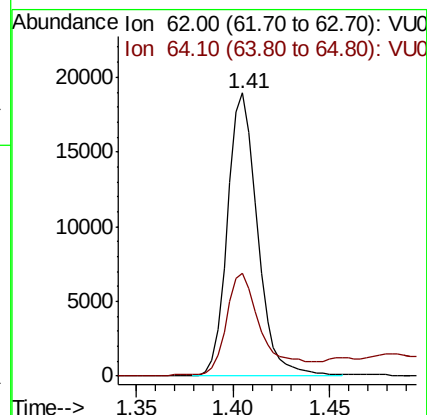
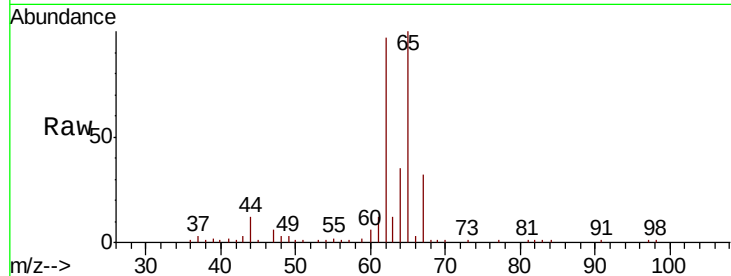
C0JB6

Tgt Ion: 62 Resp: 20446

Ion Ratio Lower Upper

62 100

64 36.3 22.9 42.5



#8

Chloroethane

Concen: 0.841 ug/L

RT: 1.70 min Scan# 164

Delta R.T. -0.00 min

Lab File: VU027678.D

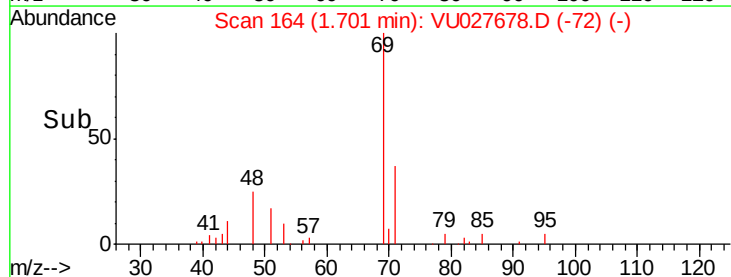
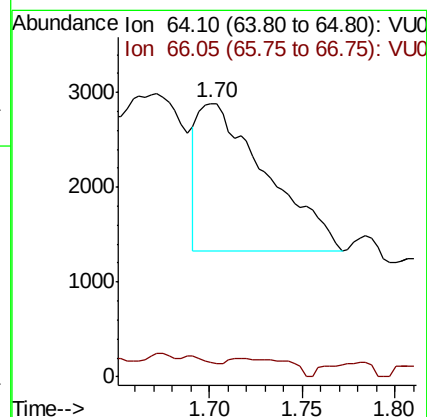
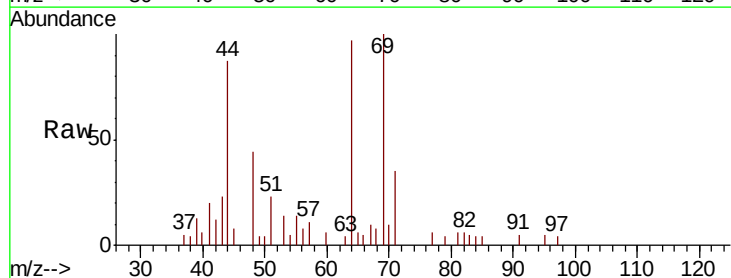
Acq: 17 Oct 2018 15:12

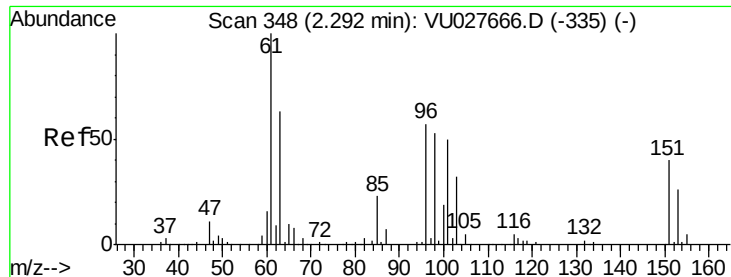
Tgt Ion: 64 Resp: 3962

Ion Ratio Lower Upper

64 100

66 5.2 23.5 43.7#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.062 ug/L

RT: 2.28 min Scan# 344

Delta R.T. -0.01 min

Lab File: VU027678.D

Acq: 17 Oct 2018 15:12

Instrument :

MSVOA\_U

ClientSampleId :

C0JB6

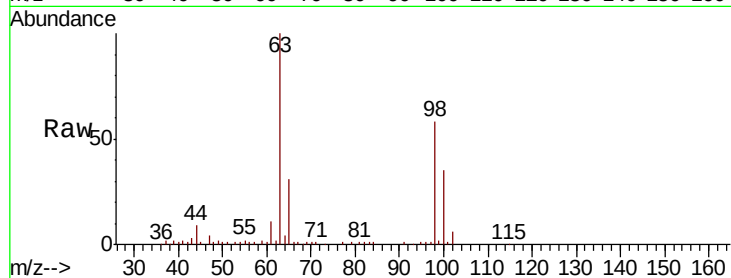
Tgt Ion: 101 Resp: 352

Ion Ratio Lower Upper

101 100

85 19.9 35.6 53.4#

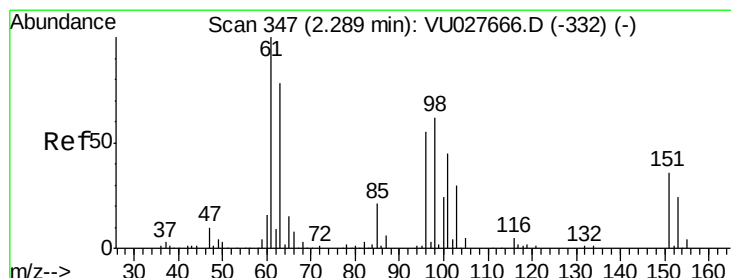
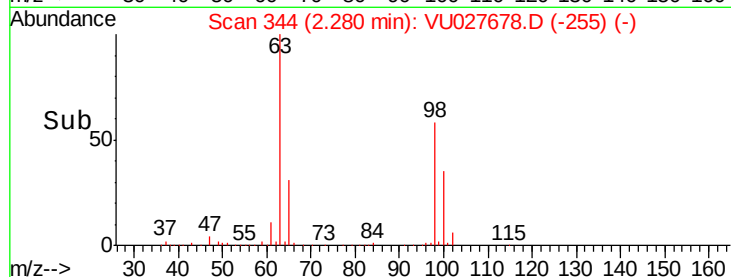
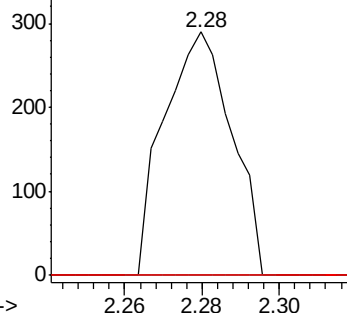
151 0.0 63.8 95.6#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.152 ug/L

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU027678.D

Acq: 17 Oct 2018 15:12

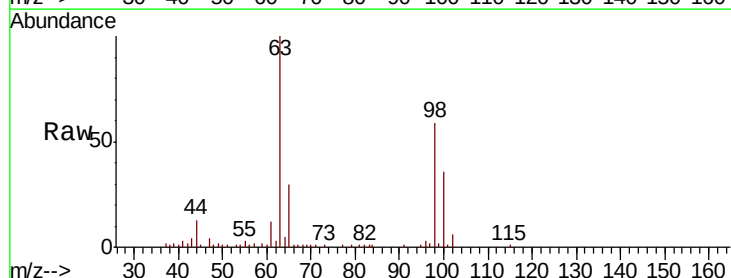
Tgt Ion: 96 Resp: 861

Ion Ratio Lower Upper

96 100

61 481.5 125.6 233.2#

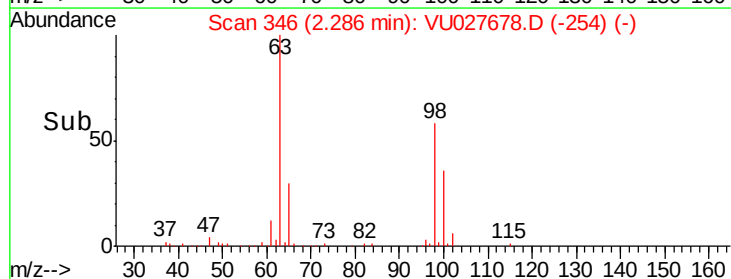
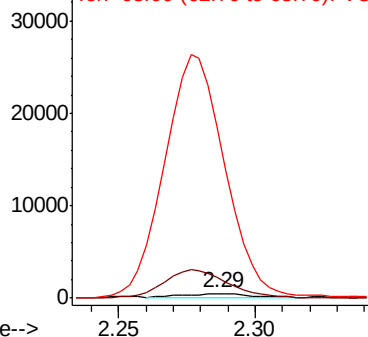
63 3959.1 97.6 181.2#

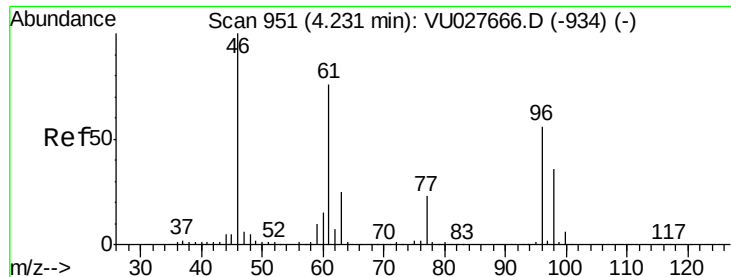


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0



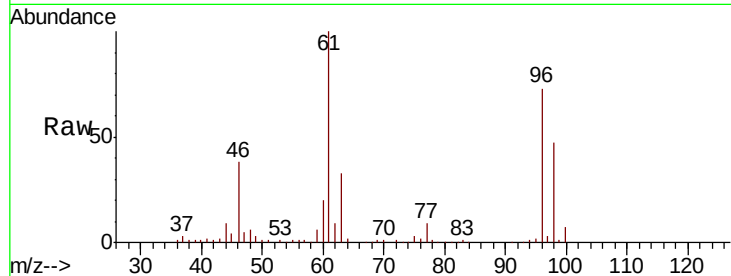


#22

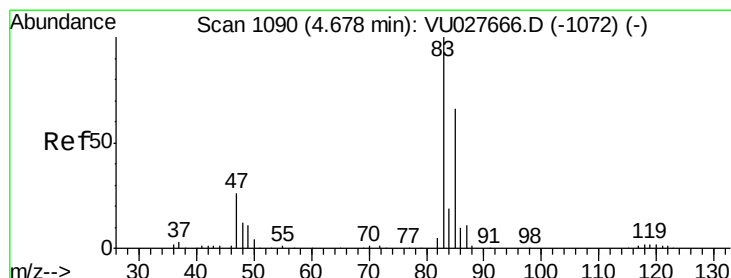
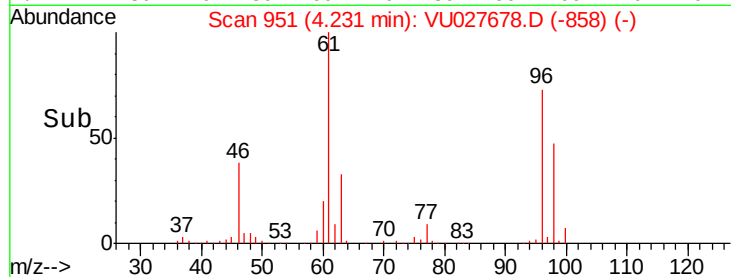
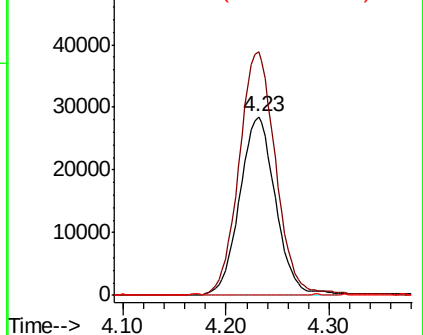
cis-1,2-Dichloroethene  
 Concen: 10.352 ug/L  
 RT: 4.23 min Scan# 951  
 Delta R.T. 0.00 min  
 Lab File: VU027678.D  
 Acq: 17 Oct 2018 15:12

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JB6

Tgt Ion: 96 Resp: 69028  
 Ion Ratio Lower Upper  
 96 100  
 61 136.3 95.3 176.9  
 68 0.5 1.1 2.1#



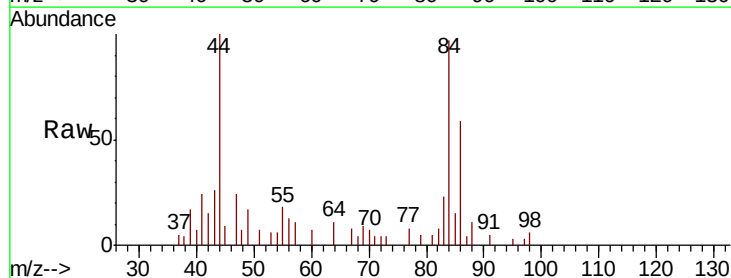
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



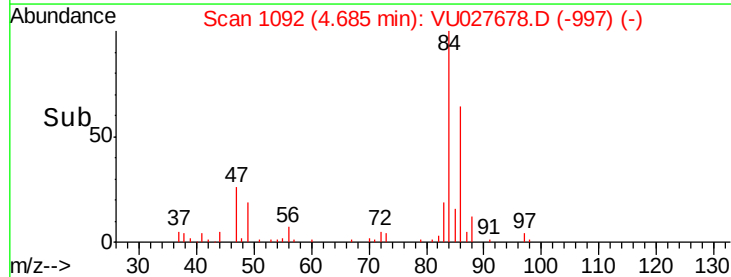
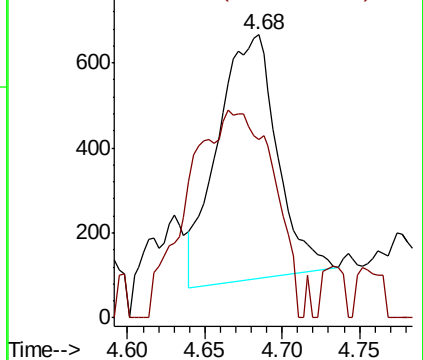
#25

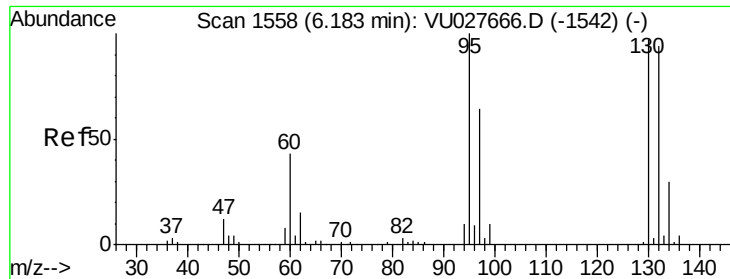
Chloroform  
 Concen: 0.133 ug/L  
 RT: 4.68 min Scan# 1092  
 Delta R.T. 0.01 min  
 Lab File: VU027678.D  
 Acq: 17 Oct 2018 15:12

Tgt Ion: 83 Resp: 1541  
 Ion Ratio Lower Upper  
 83 100  
 85 63.2 46.1 85.7



Abundance Ion 83.05 (82.75 to 83.75): VU0  
 Ion 85.00 (84.70 to 85.70): VU0





#34

Trichloroethene

Concen: 5.381 ug/L

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU027678.D

Acq: 17 Oct 2018 15:12

Instrument :

MSVOA\_U

ClientSampled :

C0JB6

Tgt Ion: 95 Resp: 36484

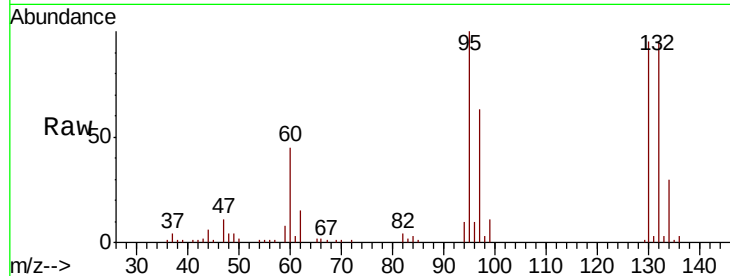
Ion Ratio Lower Upper

95 100

97 63.5 44.7 83.1

132 94.6 65.9 122.5

130 95.2 67.9 126.1

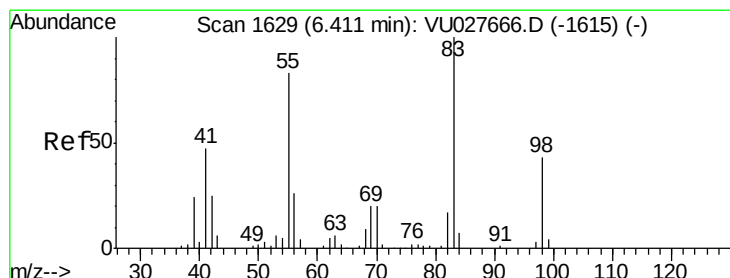
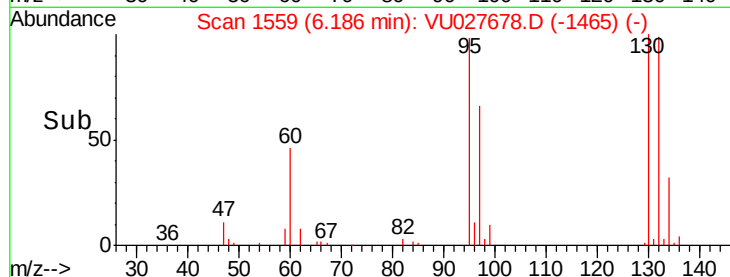
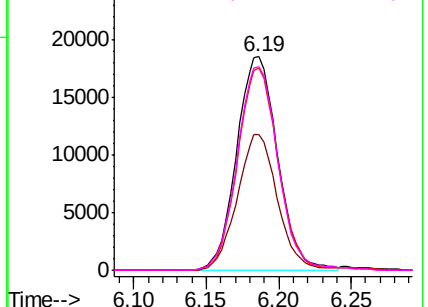


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.671 ug/L

RT: 6.33 min Scan# 1605

Delta R.T. -0.08 min

Lab File: VU027678.D

Acq: 17 Oct 2018 15:12

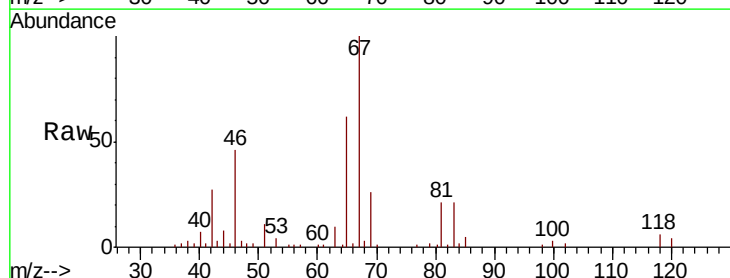
Tgt Ion: 83 Resp: 7839

Ion Ratio Lower Upper

83 100

55 1.1 69.0 103.4#

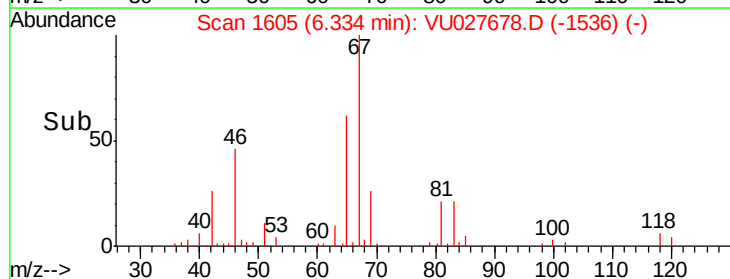
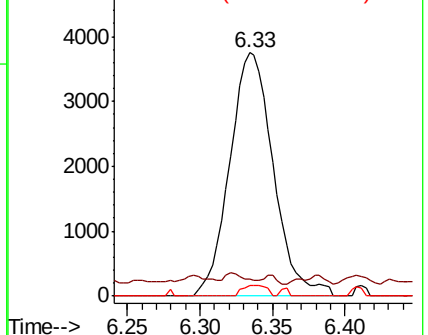
98 2.4 35.4 53.2#

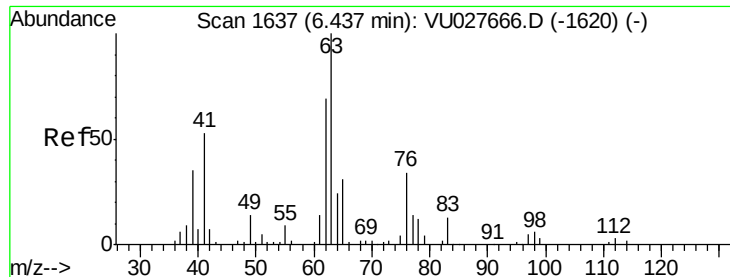


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

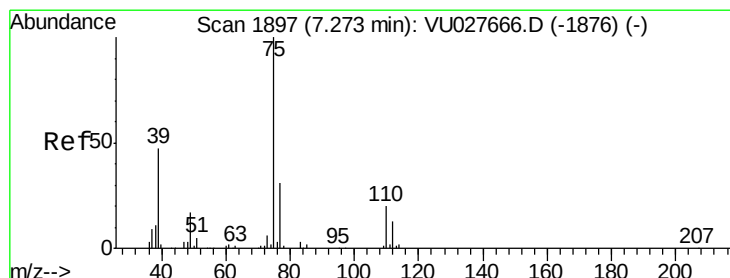
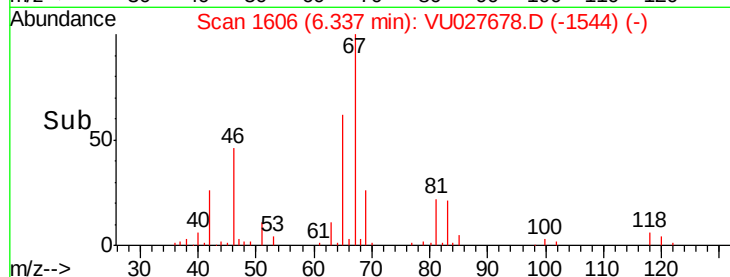
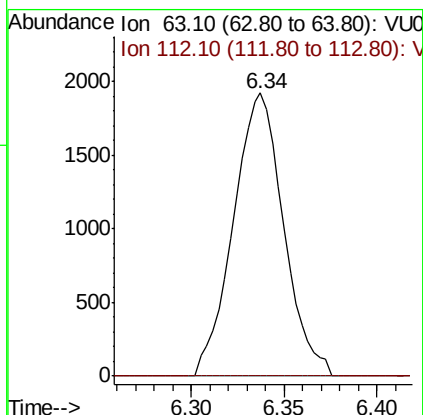
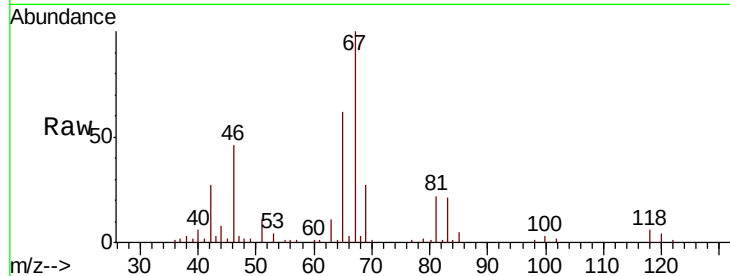




#37  
 1,2-Dichloropropane  
 Concen: 0.480 ug/L  
 RT: 6.34 min Scan# 1606  
 Delta R.T. -0.10 min  
 Lab File: VU027678.D  
 Acq: 17 Oct 2018 15:12

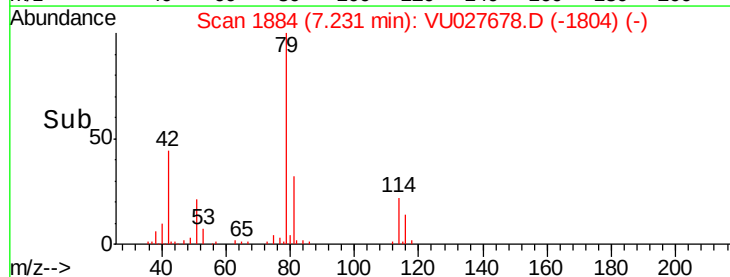
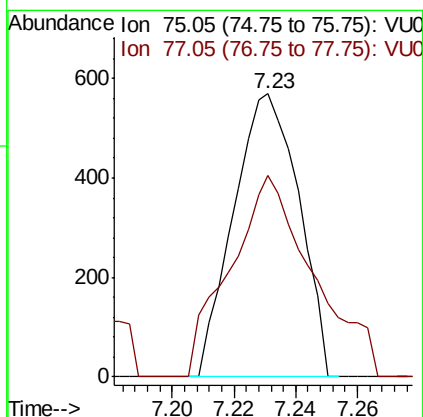
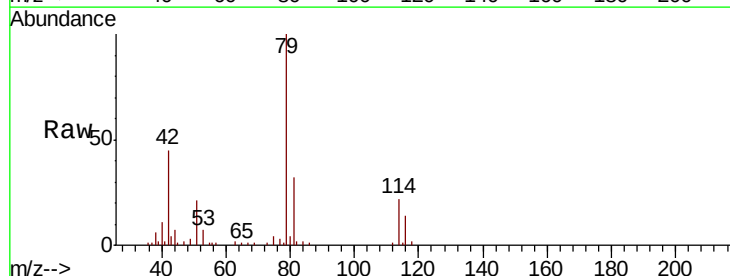
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JB6

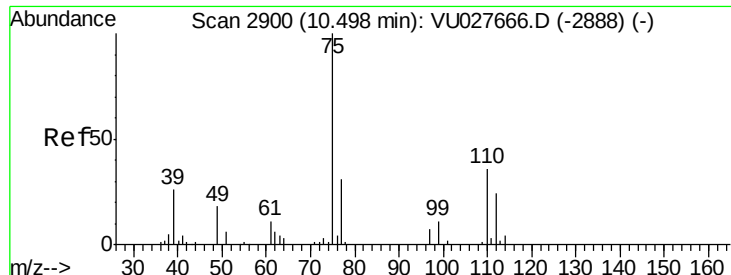
Tgt Ion: 63 Resp: 3611  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 2.8 4.2#



#39  
 cis-1,3-Dichloropropene  
 Concen: 0.076 ug/L  
 RT: 7.23 min Scan# 1884  
 Delta R.T. -0.04 min  
 Lab File: VU027678.D  
 Acq: 17 Oct 2018 15:12

Tgt Ion: 75 Resp: 835  
 Ion Ratio Lower Upper  
 75 100  
 77 71.2 22.2 41.2#





#59

1,2,3-Trichloropropane

Concen: 1.129 ug/L

RT: 11.48 min Scan# 3207

Delta R.T. 0.99 min

Lab File: VU027678.D

Acq: 17 Oct 2018 15:12

Instrument :

MSVOA\_U

ClientSampleId :

C0JB6

Tgt Ion: 75 Resp: 4881

Ion Ratio Lower Upper

75 100

77 41.5 26.9 40.3#

